



**Sterne Kessler  
Goldstein Fox**  
ATTORNEYS AT LAW

Robert Greene Sterne  
Angele A. Goldstein  
David E.S. Cornwell  
Robert M. Elmond  
Tacy-Gene C. Durkin  
Michelle A. Cambria  
Michael B. Ray  
Robert F. Scholtz  
Eric K. Seif  
Michael Q. Lee  
John M. Conert  
Robert C. Milioni  
Donald I. Featherstone  
Timothy J. Shea, Jr.  
Michael V. Messenger  
Judith U. Kim  
Mark Fox Evans  
Jeffrey L. Hesley  
Edgar J. Elbert  
Donald R. Bonowitz  
Peter A. Judsman  
Brian J. Del Buono

Elizabeth J. Hauser  
Michael D. Specht  
Kevin W. McCabe  
Glenn J. Perry  
Theodore A. Wood  
Gabri L. Longworth  
Gael E. Reed  
Tacy L. Muller  
Jon E. Wright  
Lukenne M. DeSantis  
Helene C. Carlson  
Cynthia M. Bouchier  
Timothy A. Doyle  
Lois A. Gordon  
Shannon A. Carroll  
Anbar F. Khal  
Michelle K. Holobek  
Martha A. Roper  
Scott A. Schellert  
Jon E. Wright  
W. Blake Caldwell  
James J. Foll

John T. Hagan  
Mark W. Rygel  
Michael R. Kulek  
Celia J. Egan Kim  
Dayle A. Seves\*  
Paul A. Calko  
C. Matthew Rozier  
Randall E. Baldwin  
Lori M. Bransley  
Deborah A. Sterling  
Jeremy M. Klass  
Stephanie L. Elmer  
Jeffrey K. Mills  
Miss Malhotra  
Scott M. Woodhouse  
Peter A. Secares  
Christopher A. Camarise  
Rosa G. Hicks  
Kishia Hyton-Rodriguez  
Bonnie Nannenga-Combs

Alyssa K. Sandrowitz  
Jonathan M. Seagrif  
John P. Veenstra  
Chenghua Luo  
Salvador M. Bezos\*  
Bruce B. Vance  
Justin L. Shee  
Byron L. Picard  
Katherine K. Dhillon  
Christopher K. Fegic  
Jeffrey K. Frazier  
William P. Ladd

Yasser Mourada  
Cynthia L. Deffenzo  
Omar F. Aron  
R. Wilson Powers III  
Jon C. Wong  
Joseph E. Malachukaus  
Kavon Nasabadeh  
Aaron S. Ward

Of Counsel  
Edward J. Kessler  
Christopher P. Wiest  
David C. Isaacson  
Jason D. Eisenberg

**Registered Patent Agents\***

Glen H. Maslowicz  
Danielle L. Letting  
Steven C. Oppenheimer  
Aaron S. Lucas  
Jonathan Luminaro  
Gustav Acharya

\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Practice limited to federal agencies

November 12, 2009

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Attn: Mail Stop Amendment**

Re: U.S. Utility Patent Application  
Application No. 10/561,780; § 371 Date: July 2, 2007  
For: **Tissue Modeling In Embryonic Stem (ES) Cell System**  
Inventors: KOLOSSOV *et al.*  
Our Ref: 2590.0030002/EJH/SAC

Dear Sir:

Transmitted herewith for appropriate action are the following documents:

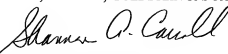
1. Amendment and Reply Under 37 C.F.R. § 1.111;
2. Three (3) sheets of Replacement Drawings (Figures 2A, 2B, and 4); and
3. Two (2) sheets of Annotated Drawings (showing changes) (Figures 2A and 2B).

***The above-listed documents are being filed electronically through EFS-Web.***

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Shannon A. Carroll, Ph.D.  
Attorney for Applicants  
Registration No. 58,240

SAC/rjv  
Enclosure(s)

1050143\_1.DOC